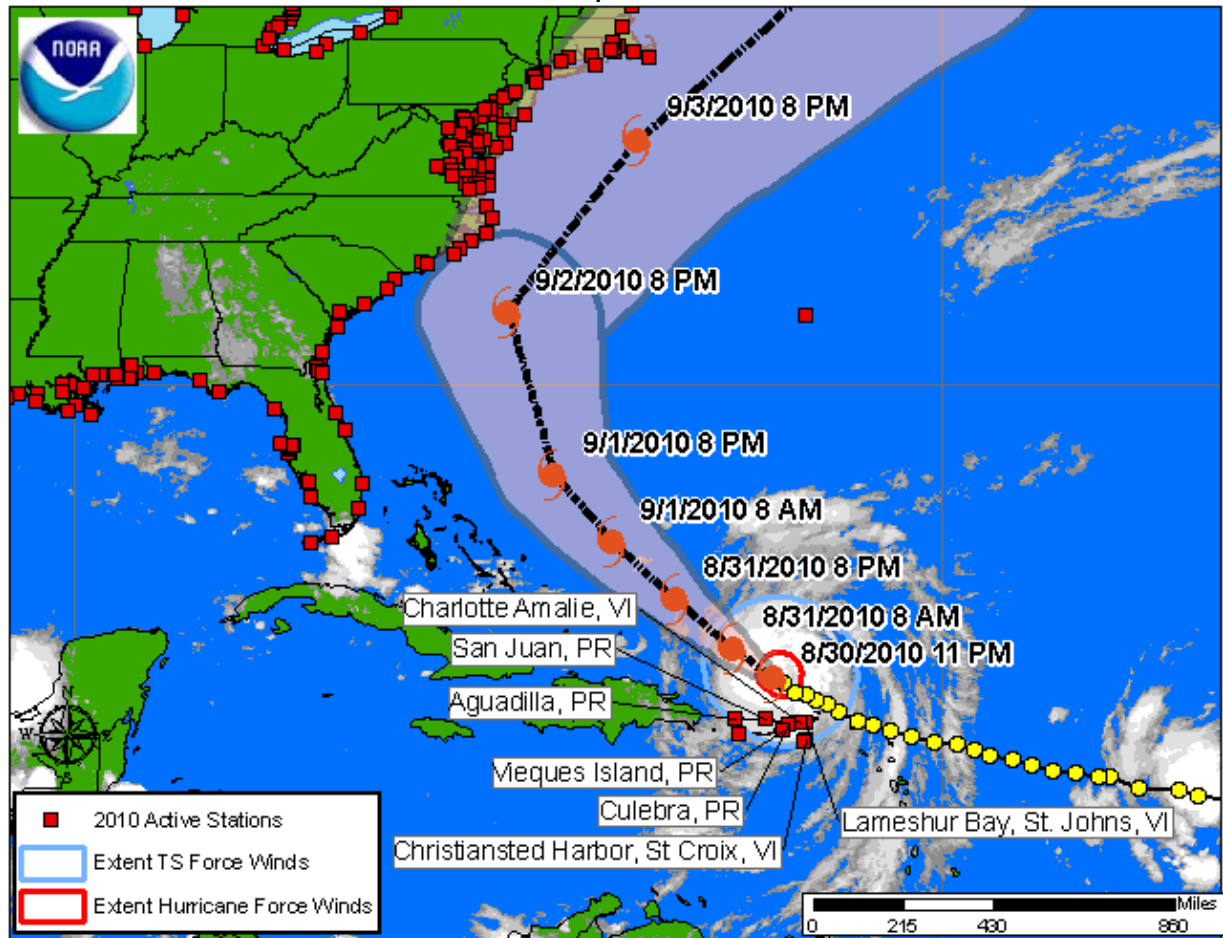




Hurricane EARL QuickLook
Posted: 00:00 AST 08/31/2010

NOAA and NOAA Partnership Stations Relative to the Storm



Storm Analysis

As of 08/31/2010 00:00 AST, water levels from the U.S. Virgin Islands to Puerto Rico are subsiding and range between 0.5 and 0.9 feet above predictions. Winds are decreasing and range from 15 to 25 knots. Wind gusts of over 30 knots are being observed at Culebra, PR. Barometric pressure is rising across the region.

Water Level and Meteorological plots available below are updated automatically. Water level predictions relative to Mean Lower Low Water are:

Christiansted Harbor, St. Croix, VI: Next predicted high tides are 0.66 ft (0.20 m) at 08/31/2010 14:53 AST and 0.71 ft (0.22 m) at 09/01/2010 16:45 AST.

Lameshur Bay, St. John, VI Next predicted high tides are 0.78 ft (0.24 m) at 08/31/2010 15:37 AST and 0.84 ft (0.25 m) at 09/01/2010 16:43 AST.

Charlotte Amalie, VI: Next predicted high tides are 0.88 ft (0.27 m) at 08/31/2010 16:12 AST and 0.95 ft (0.29 m) at 09/01/2010 17:19 AST.

Culebra, PR: Next predicted high tides are 0.66 ft (0.20 m) at 08/31/2010 00:51 AST and 0.98 ft (0.30 m) at 08/31/2010 15:01 AST.

Esperanza, Vieques Island, PR: Next predicted high tides are 0.63 ft (0.19 m) at 08/31/2010 17:31 AST and 0.71 ft (0.22 m) at 09/01/2010 18:17 AST.

San Juan, PR Next predicted high tides are 1.10 ft (0.34 m) at 08/31/2010 01:00 AST and 1.62 ft (0.49 m) at 08/31/2010 14:54 AST.

Aguadilla, PR Next predicted high tides are 0.92 ft (0.28 m) at 08/31/2010 00:50 AST and 1.32 ft (0.40 m) at 08/31/2010 13:52 AST.

For additional data, please see the [Center for Operational Oceanographic Products & Services](#) website. For more information or archived products and reports, please see the [Storm QuickLook](#) homepage.

Analyst:CF

SELECT NATIONAL HURRICANE CENTER ADVISORY INFORMATION:

HURRICANE EARL ADVISORY NUMBER 23

1100 PM AST MON AUG 30 2010

...EARL CONTINUES TO MOVE AWAY FROM THE VIRGIN ISLANDS...

WATCHES AND WARNINGS

CHANGES WITH THIS ADVISORY...

NONE.

SUMMARY OF WATCHES AND WARNINGS IN EFFECT...

A TROPICAL STORM WARNING IS IN EFFECT FOR...

*** PUERTO RICO...INCLUDING THE ISLANDS OF CULEBRA AND VIEQUES**

*** U.S. VIRGIN ISLANDS**

INTERESTS FROM THE CAROLINAS NORTHWARD TO NEW ENGLAND SHOULD MONITOR THE PROGRESS OF EARL.

FOR STORM INFORMATION SPECIFIC TO PUERTO RICO AND THE U.S. VIRGIN ISLANDS...INCLUDING POSSIBLE INLAND WATCHES AND WARNINGS...PLEASE MONITOR PRODUCTS ISSUED BY THE SAN JUAN NATIONAL WEATHER SERVICE FORECAST

OFFICE.

DISCUSSION AND 48-HOUR OUTLOOK

AT 1100 PM AST THE CENTER OF HURRICANE EARL WAS LOCATED ABOUT 105 MI N OF SAN JUAN PUERTO RICO. EARL IS MOVING TOWARD THE WEST-NORTHWEST NEAR 14 MPH. THIS GENERAL MOTION IS EXPECTED TO CONTINUE OVERNIGHT FOLLOWED BY A TURN TOWARD THE NORTHWEST ON TUESDAY. ON THE FORECAST TRACK THE CENTER OF EARL WILL PASS WELL NORTH OF PUERTO RICO OVERNIGHT AND PASS EAST OF THE TURKS AND CAICOS ISLANDS ON TUESDAY NIGHT AND WEDNESDAY.

MAXIMUM SUSTAINED WINDS ARE NEAR 135 MPH WITH HIGHER GUSTS. EARL IS A CATEGORY FOUR HURRICANE ON THE SAFFIR-SIMPSON HURRICANE WIND SCALE. SOME FLUCTUATIONS IN STRENGTH ARE LIKELY OVER THE NEXT 24 TO 48 HOURS.

HURRICANE FORCE WINDS EXTEND OUTWARD UP TO 70 MILES FROM THE CENTER AND TROPICAL STORM FORCE WINDS EXTEND OUTWARD UP TO 200 MILES.

ESTIMATED MINIMUM CENTRAL PRESSURE IS 938 MB.

HAZARDS AFFECTING LAND

WIND...TROPICAL STORM CONDITIONS WILL GRADUALLY SUBSIDE OVER THE BRITISH AND U.S. VIRGIN ISLANDS OVERNIGHT. TROPICAL STORM CONDITIONS WILL AFFECT PORTIONS OF PUERTO RICO OVERNIGHT. STRONGER WINDS ESPECIALLY IN GUSTS ARE LIKELY OVER ELEVATED TERRAIN IN PUERTO RICO. TROPICAL STORM CONDITIONS OVER PUERTO RICO WILL BEGIN TO SUBSIDE EARLY TUESDAY.

STORM SURGE...STORM SURGE FLOODING AND WAVES WILL BEGIN TO DIMINISH OVER THE TROPICAL STORM WARNING AREA EARLY TUESDAY.

RAINFALL...EARL IS EXPECTED TO PRODUCE TOTAL RAINFALL ACCUMULATIONS OF 4 TO 8 INCHES OVER THE VIRGIN ISLANDS AND PUERTO RICO WITH POSSIBLE ISOLATED MAXIMUM AMOUNTS OF 12 INCHES ESPECIALLY OVER HIGHER ELEVATIONS. THESE RAINS COULD CAUSE LIFE-THREATENING FLASH FLOODS AND MUDSLIDES.

FORECASTER PASCH

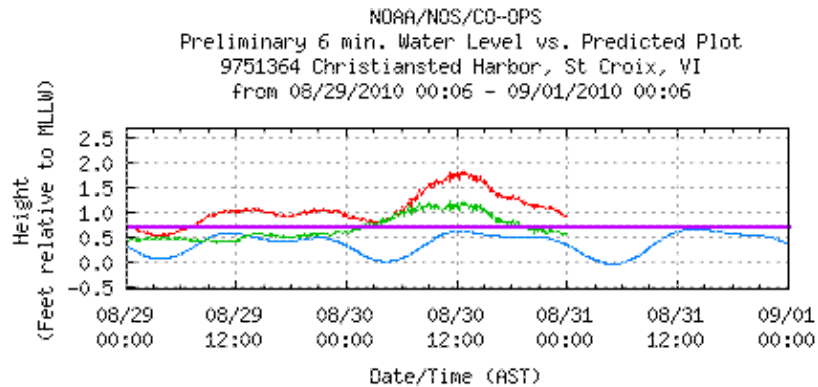
For the purpose of timely release, data contained within this QuickLook have undergone a "limited" NOS Quality Assurance/Control; however, the data have not yet undergone final verification. All data subject to NOS verification.

Jump to: [Christiansted Harbor, St Croix - Water Level](#), [Christiansted Harbor, St Croix - Winds](#), [Christiansted Harbor, St Croix - Barometric](#), [Christiansted Harbor, St Croix - Air/Water Temp](#), [Lameshur Bay, St. John - Water Level](#), [Lameshur Bay, St. John - Air/Water Temp](#), [Charlotte Amalie - Water Level](#), [Charlotte Amalie - Winds](#), [Charlotte Amalie -](#)

Hurricane EARL QuickLook, POSTED 00:00 AST 08/31/2010

Barometric, Charlotte Amalie - Air/Water Temp, Culebra - Water Level, Culebra - Winds, Culebra - Barometric, Culebra - Air/Water Temp, Esperanza, Vieques Island - Water Level, Esperanza, Vieques Island - Winds, Esperanza, Vieques Island - Barometric, Esperanza, Vieques Island - Air/Water Temp, San Juan - Water Level, San Juan - Winds, San Juan - Barometric, San Juan - Air/Water Temp, Aguadilla - Water Level, Aguadilla - Barometric, Aguadilla - Air/Water Temp,

Christiansted Harbor, St Croix, VI - [Return to List](#)

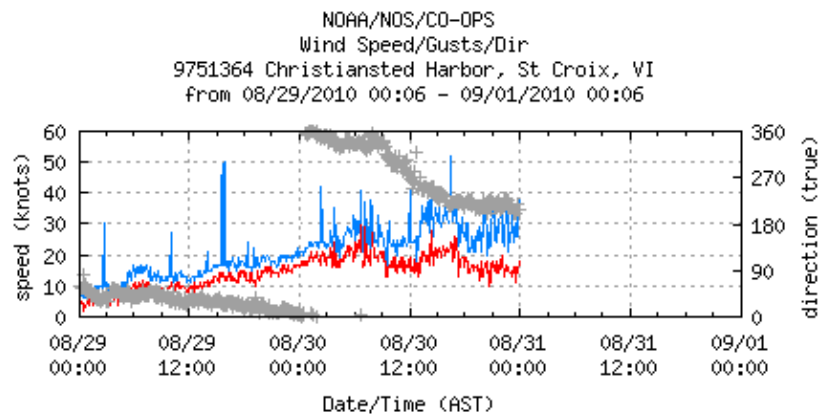


Last Observed Sample: 08/30/2010 23:54 (AST)

Relative to **MLLW**: **Observed: 0.92 ft. Predicted: 0.35 ft. Residual: 0.57 ft.**

Historical Maximum Water Level: Oct 13 2006, 0.73 ft. above **MHHW**

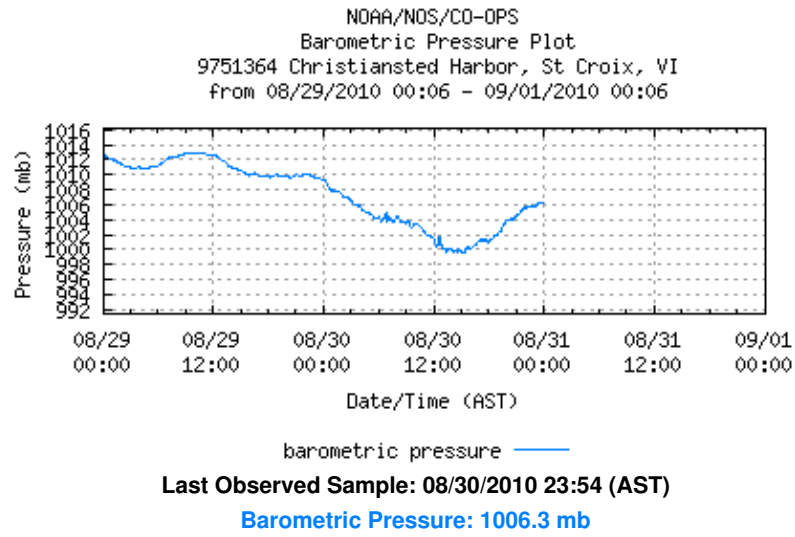
Christiansted Harbor, St Croix, VI - [Return to List](#)



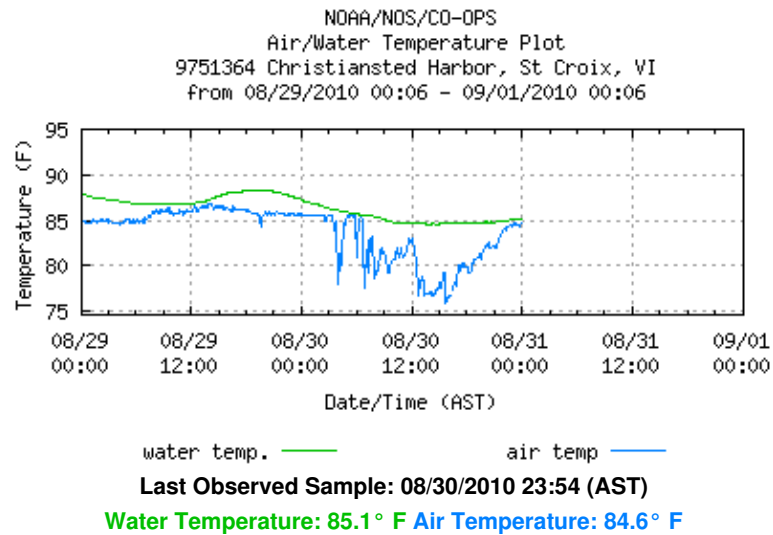
Last Observed Sample: 08/30/2010 23:54 (AST)

Wind Speed: 18 knots Gusts: 38 knots Direction: 209° T

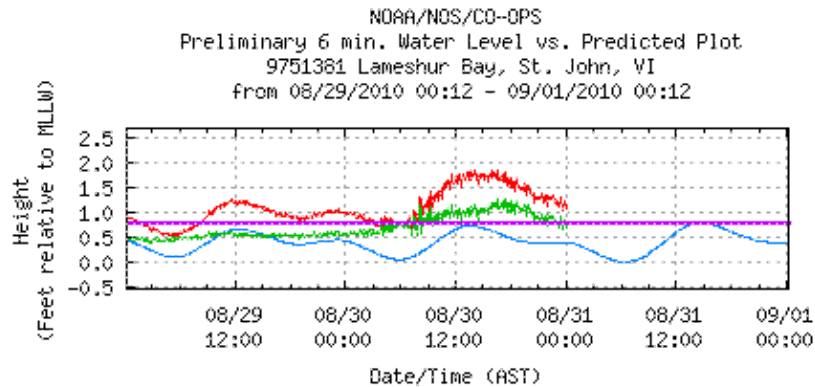
Christiansted Harbor, St Croix, VI - [Return to List](#)



Christiansted Harbor, St Croix, VI - [Return to List](#)



Lameshur Bay, St. John, VI - [Return to List](#)

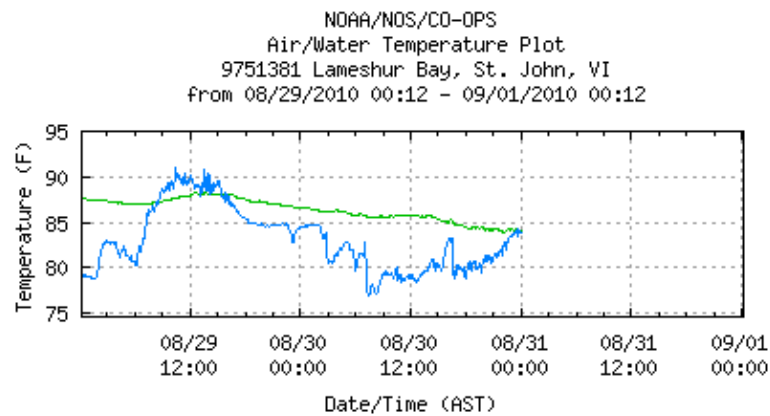


Last Observed Sample: 08/31/2010 00:00 (AST)

Relative to **MLLW**: **Observed: 1.08 ft.** **Predicted: 0.40 ft.** **Residual: 0.68 ft.**

Historical Maximum Water Level: Nov 6 2006, 0.83 ft. above **MHHW**

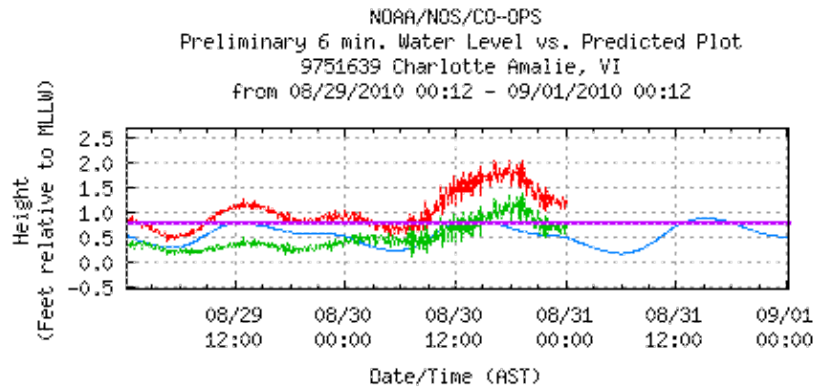
Lameshur Bay, St. John, VI - [Return to List](#)



Last Observed Sample: 08/31/2010 00:00 (AST)

Water Temperature: 84.0° F **Air Temperature: 83.8° F**

Charlotte Amalie, VI - [Return to List](#)

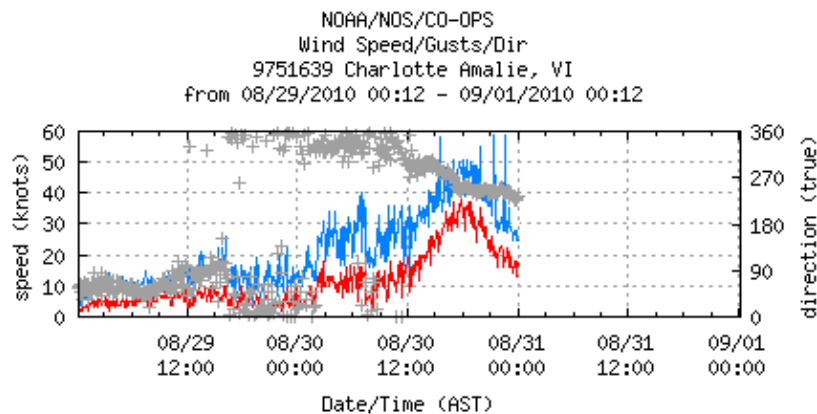


Last Observed Sample: 08/31/2010 00:00 (AST)

Relative to **MLLW**: **Observed: 1.22 ft. Predicted: 0.49 ft. Residual: 0.73 ft.**

Historical Maximum Water Level: Sep 16 1995, 2.93 ft. above **MHHW**

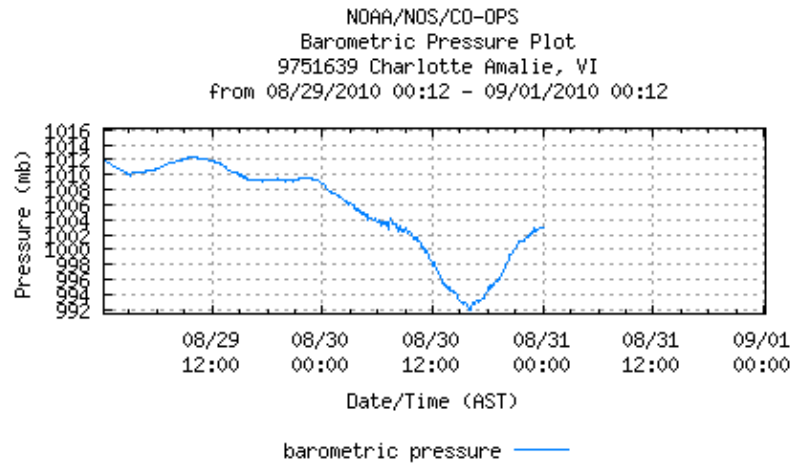
Charlotte Amalie, VI - [Return to List](#)



Last Observed Sample: 08/31/2010 00:00 (AST)

Wind Speed: 17 knots Gusts: 25 knots Direction: 234° T

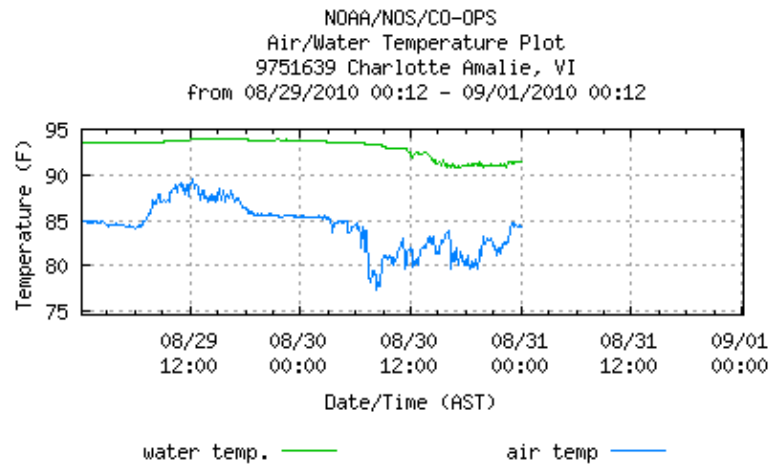
Charlotte Amalie, VI - [Return to List](#)



Last Observed Sample: 08/31/2010 00:00 (AST)

Barometric Pressure: 1002.9 mb

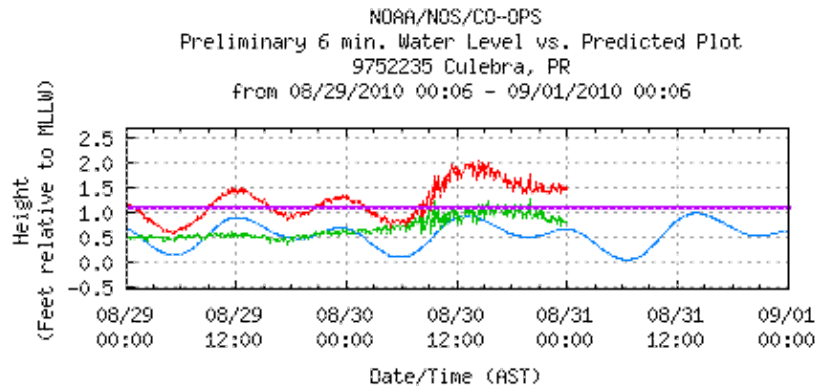
Charlotte Amalie, VI - [Return to List](#)



Last Observed Sample: 08/31/2010 00:00 (AST)

Water Temperature: 91.5° F Air Temperature: 84.2° F

Culebra, PR - [Return to List](#)

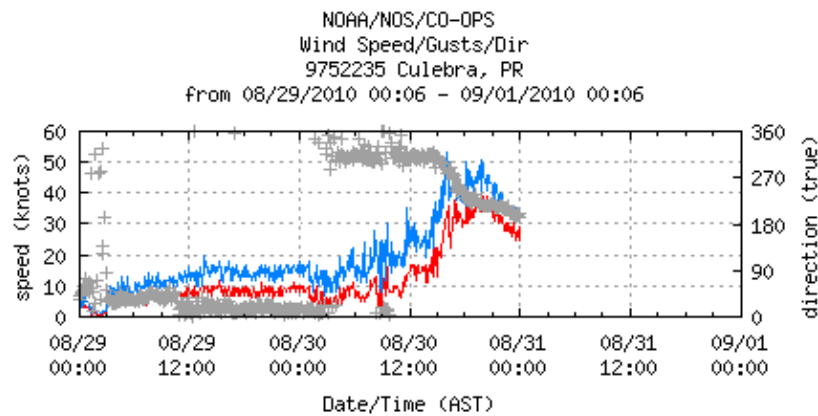


Last Observed Sample: 08/31/2010 00:00 (AST)

Relative to **MLLW**: **Observed: 1.47 ft. Predicted: 0.66 ft. Residual: 0.81 ft.**

Historical Maximum Water Level: Nov 6 2006, 0.86 ft. above **MHHW**

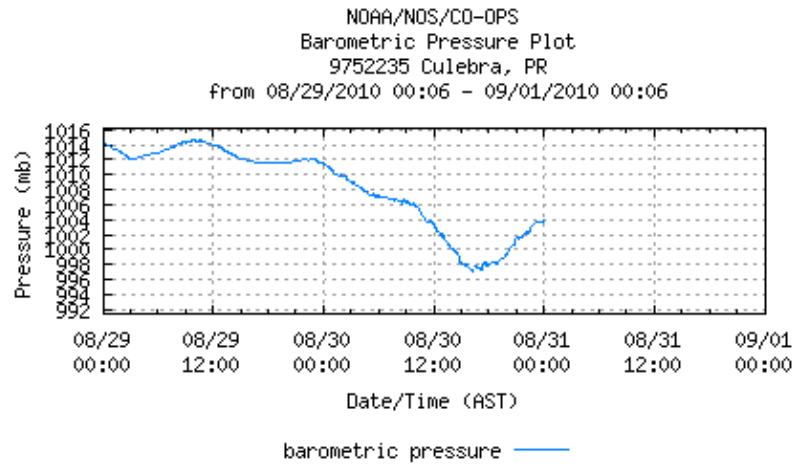
Culebra, PR - [Return to List](#)



Last Observed Sample: 08/31/2010 00:00 (AST)

Wind Speed: 29 knots Gusts: 34 knots Direction: 194° T

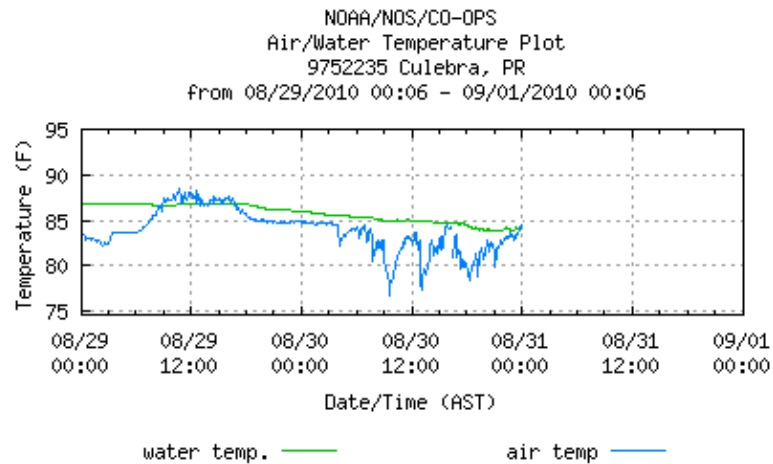
Culebra, PR - [Return to List](#)



Last Observed Sample: 08/31/2010 00:00 (AST)

Barometric Pressure: 1004.0 mb

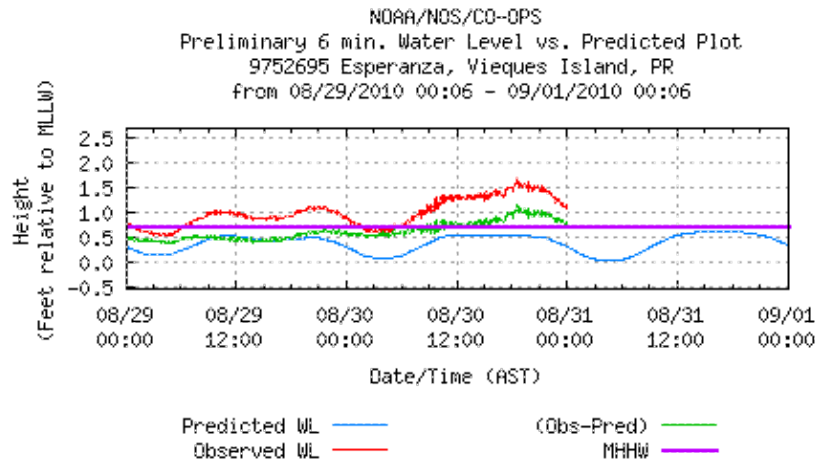
Culebra, PR - [Return to List](#)



Last Observed Sample: 08/31/2010 00:00 (AST)

Water Temperature: 84.0° F Air Temperature: 84.2° F

Esperanza, Vieques Island, PR - [Return to List](#)

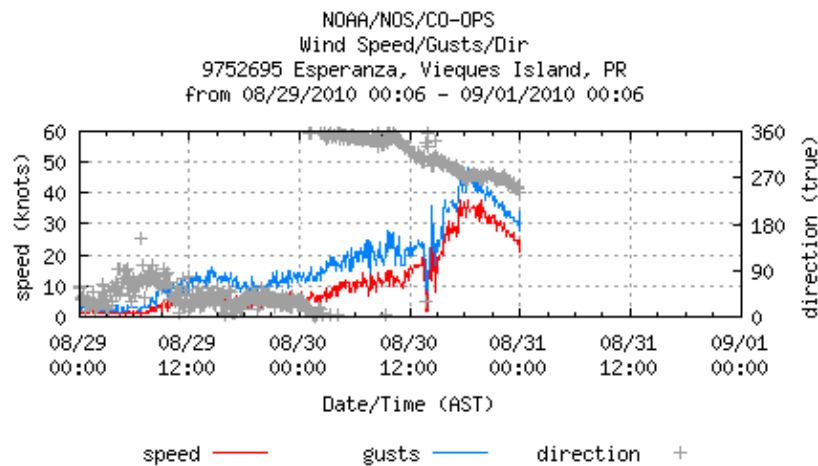


Last Observed Sample: 08/31/2010 00:00 (AST)

Relative to **MLLW**: **Observed: 1.09 ft.** **Predicted: 0.31 ft.** **Residual: 0.78 ft.**

Historical Maximum Water Level: Oct 13 2006, 0.83 ft. above **MHHW**

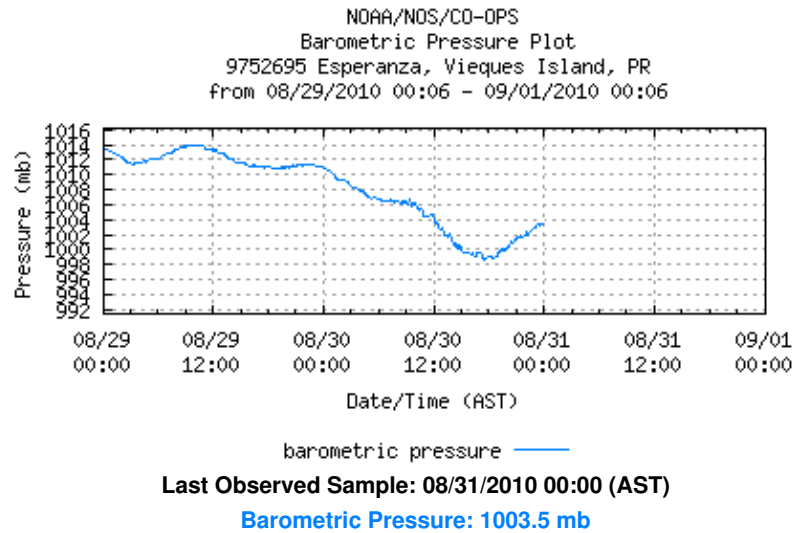
Esperanza, Vieques Island, PR - [Return to List](#)



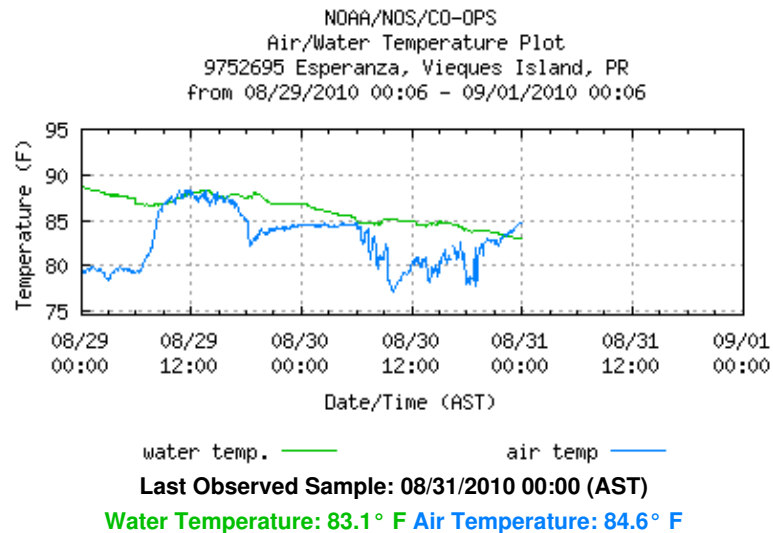
Last Observed Sample: 08/31/2010 00:00 (AST)

Wind Speed: 25 knots **Gusts: 34 knots** **Direction: 243° T**

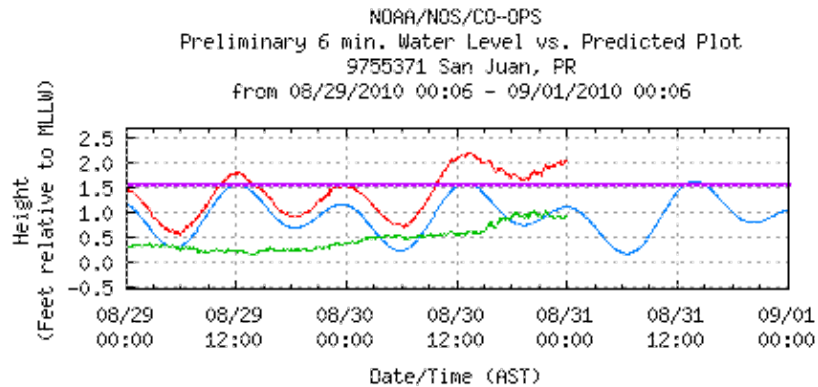
Esperanza, Vieques Island, PR - [Return to List](#)



Esperanza, Vieques Island, PR - [Return to List](#)



San Juan, PR - [Return to List](#)

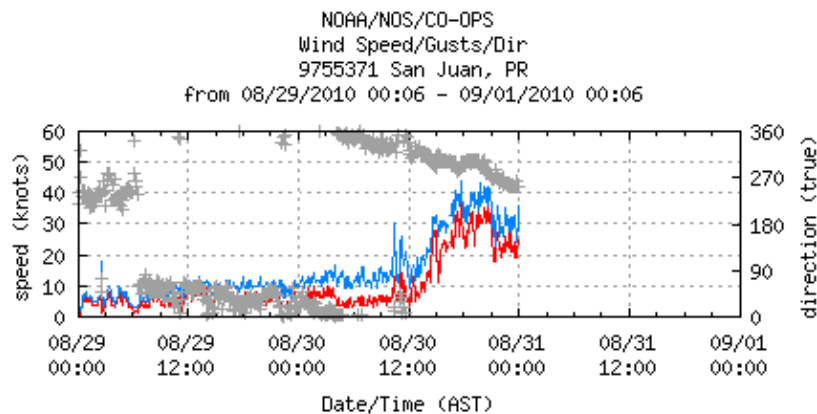


Last Observed Sample: 08/31/2010 00:00 (AST)

Relative to **MLLW**: **Observed: 2.04 ft.** **Predicted: 1.10 ft.** **Residual: 0.94 ft.**

Historical Maximum Water Level: Sep 21 1998, 1.21 ft. above **MHHW**

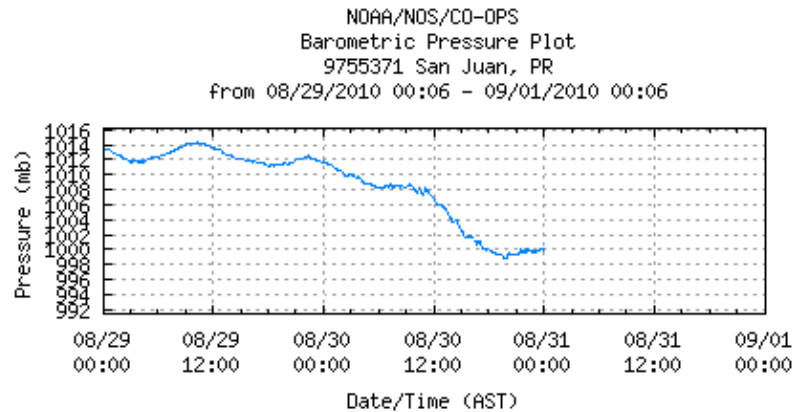
San Juan, PR - [Return to List](#)



Last Observed Sample: 08/31/2010 00:00 (AST)

Wind Speed: 24 knots **Gusts: 36 knots** **Direction: 253° T**

San Juan, PR - [Return to List](#)

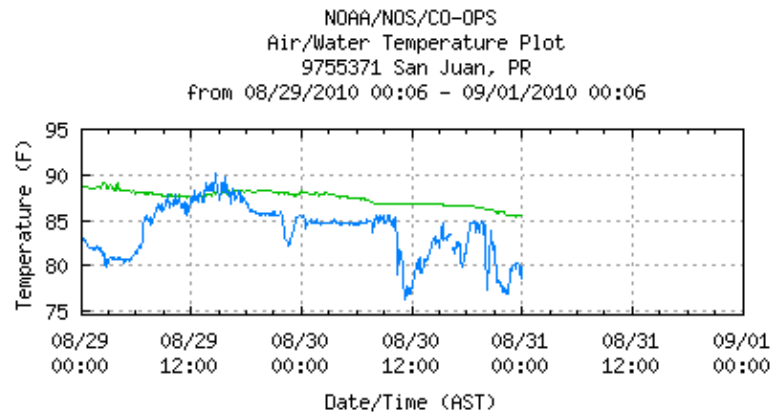


barometric pressure —

Last Observed Sample: 08/31/2010 00:00 (AST)

Barometric Pressure: 999.9 mb

San Juan, PR - [Return to List](#)

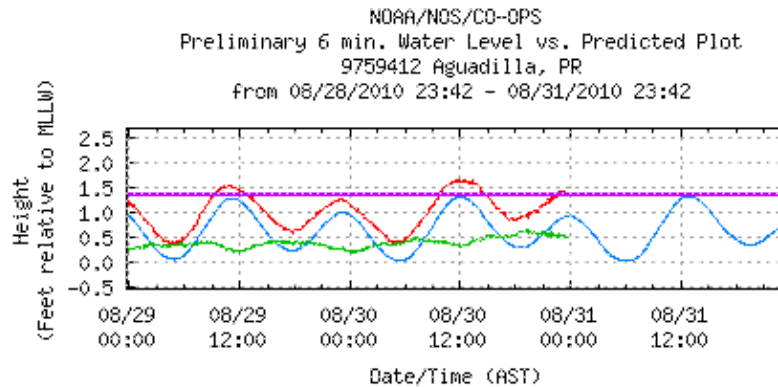


water temp. — air temp —

Last Observed Sample: 08/31/2010 00:00 (AST)

Water Temperature: 85.5° F Air Temperature: 79.9° F

Aguadilla, PR - [Return to List](#)

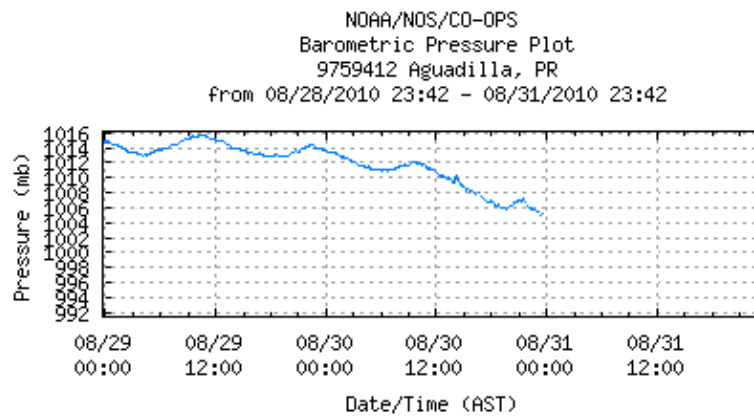


Last Observed Sample: 08/30/2010 23:30 (AST)

Relative to **MLLW**: **Observed: 1.40 ft.** **Predicted: 0.92 ft.** **Residual: 0.48 ft.**

Historical Maximum Water Level: Oct 28 2007, 0.95 ft. above **MHHW**

Aguadilla, PR - [Return to List](#)

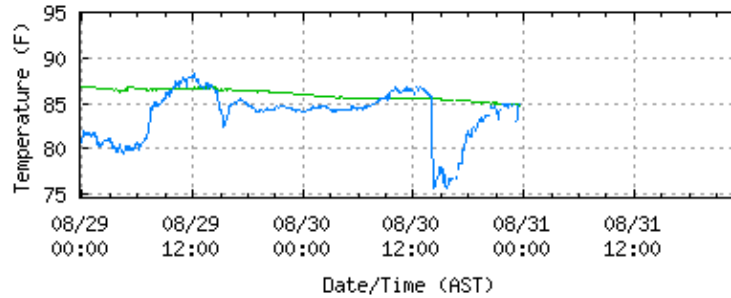


Last Observed Sample: 08/30/2010 23:30 (AST)

Barometric Pressure: 1005.1 mb

Aguadilla, PR - [Return to List](#)

NOAA/NOS/CO-OPS
Air/Water Temperature Plot
9759412 Aguadilla, PR
from 08/28/2010 23:42 - 08/31/2010 23:42



water temp. — air temp —

Last Observed Sample: 08/30/2010 23:30 (AST)

Water Temperature: 84.7° F Air Temperature: 84.9° F

Center for Operational Oceanographic Products & Services (CO-OPS) | National Ocean Service (NOS)
National Oceanic and Atmospheric Administration | U.S. Department of Commerce